

Application Serial No. 10/531,218
Reply to Office Action January 27, 2008

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PATENT

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Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) A method of manufacturing a weight-saved gypsum board in which pores with a predetermined size are distributed in a gypsum core, comprising the steps of:

blowing air into a foaming agent to produce foams foam having bubbles;
mixing the foams foam having bubbles into a kneaded material that contains calcined gypsum and water to obtain foamed gypsum slurry;
pouring the foamed gypsum slurry into a space between upper and lower base papers for gypsum board;

shaping the base papers and the foamed gypsum slurry into a board-shaped oneboard-shape;

roughly cutting off and subsequently drying the board-shaped one; and
cutting off the dried and shaped one into a product dimension; wherein the method further comprises the step of preliminarily adding a pore size adjusting agent for adjusting sizes of pores formed by bubblesfoams distributed in the foamed gypsum slurry to one of a stock solution of the foaming agent and a mixture of a stock solution of the foaming agent and water to obtain the foaming agent for producing a foamfoams having bubbles with desired sizes;

wherein the pore size adjusting agent contains at least one substance selected from the group consisting of agents for increasing sizes of [[the]] pores formed by bubblesfoams in the foamed gypsum slurry and agents for decreasing sizes of [[the]] pores formed by bubblesfoams in the foamed gypsum slurry; and

the agent for increasing sizes of [[the]] pores formed by bubblesfoams in the foamed gypsum slurry contains at least one substance selected from the group consisting of water-soluble acidic substances, strong acids, and water-soluble strong alkaline substances; and

the agent for decreasing sizes of [[the]] pores formed by bubblesfoams in the foamed gypsum slurry contains at least one substance selected from the group

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consisting of sulfosuccinate-type surface active agents, sarcosinate-type surface active agents, alkylbenzene sulfonate-type surface active agents, alkane sulfonate-type surface active agents, and alkylbetaine-type surface active agents; and
a content of the pore size adjusting agent in the foaming agent is 0.00001 parts by weight through 0.005 parts by weight per 100 parts by weight of the calcined gypsum.

2. (Cancelled)

3. (Cancelled)

4. (currently amended) The method of manufacturing a weight-saved gypsum board as claimed in Claim 1, wherein the agent for increasing sizes of [[the]] pores formed by bubbles ~~foams~~ in the foamed gypsum slurry contains at least one substance selected from the group consisting of aluminum sulfate, aluminum potassium sulfate, aluminum ammonium sulfate, ferric sulfate, polyferric sulfate, sulfuric acid, sulfamic acid, sodium hydroxide, and potassium hydroxide.

5. (Cancelled)

6. (Cancelled)